FORD MOTOR COMPANY

EXECUTIVE ORDER A-010-1395 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

	ENCINE	FUEL TYPE 1	@ 12-31-0-11-10-0	NTENDED	ECS & SPECIAL FEATURES 3
ENGINE FAMILY	SIZES (L)		PROCEDURE	CLASS 2	200 2 0. 2011.
ZEMVUNE SBSS	6.6	Gasoline	Otto	HDO	TWC, 2HO2S, SFI
T MIXI 100.0BCC		ENGINE N	MODELS / CODES (r	rated power, in hp)	
		F-53 Strip Chassis:	7F718Q0500, 7F71	18Q0505, 7F718Q0	506 (362)
			*		
			•		
			•		
	ENGINE FAMILY	OLLE (C)	FMXH08.8BSS 6.8 Gasoline ENGINE FAMILY SIZES (L) FMXH08.8BSS 6.8 Gasoline ENGINE M F-53 Strip Chassis:	FIGINE FAMILY SIZES (L) FIGURE FUEL 17FE 8. TEST PROCEDURE FIGURE MODELS / CODES (I F-53 Strip Chassis: 7F718Q0500, 7F7	ENGINE FAMILY SIZES (L) FUEL TYPE & TEST SERVICE PROCEDURE CLASS 2

=not applicable: GVWR=gross vehicle weight rating: 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; =liter; hp=horsepower; kw=kilowatt;

nice, предолжения имельность, compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=ftexible fuel;

L/M/H HDD=light/medium/heavy-duty diesel; UB=urban bus; HDO=heavy duty Olto;

ECS=emission control system; TMC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel; DF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; TMC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; TMC/OC=three-way/oxidizing catalyst; WI (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; TAFS/AFS=heated/air-fuel; DPF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; TBF=throttle body fuel injection; SFL/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor, Tell-interect, TBF=throttle body fuel injection; SFL/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor, TBF=throttle body fuel injection; SFL/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor, TBF=throttle body fuel injection; SFL/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; SPL=smoke put fuel; DF=direct gasoline injection; CARB=gaseous carburetor, TBF=throttle body fuel injection; DGI=direct gasoline injection; SPL=smoke put fuel; DF=direct gasoline injection; CARB=gaseous carburetor, TBF=throttle body fuel; DF=direct gasoline injection; CARB=gasoline injection; CARB=gasoline injection; DGI=direct gasoline injection; CARB=gasoline injection; DGI=direct gasoline injection; CARB=gasoline injection; DGI=direct gasoline injection;

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For florible, and dual finite engines the CERT relieus in breakts II are those when tested as applicable test finite. of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.1 or 13 CCR 1956.8 are in parentheses.)

,,,g.,,,,,	6 01D and 02 12				NMHC+NOx		CO		PM		НСНО	
	NMHC		NOx							EURO	FTP	EURO
	FTP EURO	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO		-
		-		 	•	•	37.1	T -•	•	· 1	*	
STD	· _	· -		ļ					*	•	•	*
EL	•	· •	•	•	0.56	<u> </u>		 	<u> </u>	 		*
CERT	+	-	•	•	0.33	•	5.2	<u> </u>				<u> </u>
ERI		<u></u>				*		*		•		*
NTE	I	*		•				adv State Cycle	NTF=Noi-k	CTD:	standard or emi	esion lest can

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap. grapp-nr=grants per uraxe norsepower-nout. CTF-rected itest notetone, European deeduy-oute Syde, RTE-notetone, OF-carbon monoxide; PM-particulate matter; HCHO-formaldehyde; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM-particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ____

28 day of November 2006.

Annette Hebert, Chief

Mobile Source Operations Division